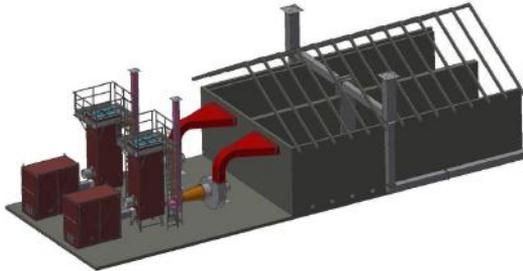

Wood drying complex

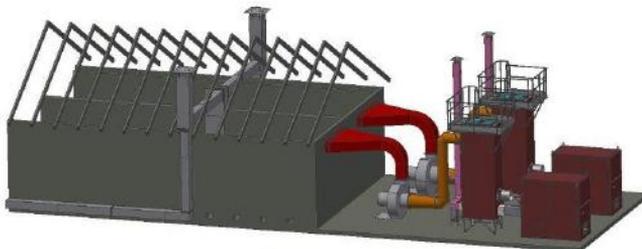
Wood drying involves a list of peculiarities, caused by the necessity of fastening the process of moisture evacuation out of splitwood.



The main difference between wood drying and sawdust drying is a higher drying agent temperature necessary for the increase of the speed of moisture evaporation from wood surface.

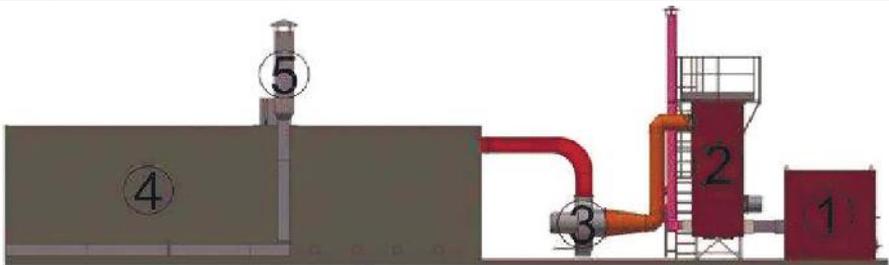
We have reached a high coefficient of efficiency due to the completely new method of wood drying: direct contact of wood with heat carrier moving at a fast pace. Herewith due to the fact that raw material moves in the trolleys, it is possible maximum efficiently to use the working space of the chamber.

The functions of the control of the heat carrier temperature at the outlet from the heat generator and at the inlet to the chamber lets prevent «wood cementation». Drying chambers of the company GreenPower are equipped with a heat pump and other systems of warmth recuperation and condensation. The main principle of drying lies in functioning of the systems of ingoing and outgoing air. The heated air is headed off to the trolleys with wood and gives up heat, then it saturates with evolving from wood moisture and changes for the new portion of air.



Completeness of the equipment

#	Item	Description
1	Heat generator with gas-air exchanger	Provides heating of drying agent (of air) for drying process
2	Gas-air exchanger	
3	Smoke exhauster DN-9	Engine power, 11 kW, Productivity 8000 m ³ /hour, weight 540 kg
4	Wood drying chamber	Can be made using different materials of different volume
5	Chimney with insulation and deflector	Height not less than 12 linear meters. Material – ordinary steel/corrosion-resistant
6	Trolleys for raw material	Can be made of different volume with or without wheels



The use of chopped oak firewood:

- for heating of premises;
- for fireplaces;
- for saunas, baths, etc.;
- for cooking on an open fire;
- for heating of industrial premises (shops, greenhouses, etc.).

Among their main advantages are the following: firewood is easier to light, it burns better and almost doesn't emit smoke.

Main specifications of Wood drying equipment

#	Item	Specifications
1	Number of drying chambers	1-2
2	Number of trolleys	Subject to approval
3	Effective volume of trolleys	Subject to approval
4	Productivity for dry raw material, depending on the moisture and size	10-15 m ³ /day
5	Heat generator loading volume	0,3 m ³
6	Estimate wood consumption for heat generator	35 kg/hour
7	Drying time up to 20% of moisture	Depends on the chamber volume, primary moisture and wood size
8	Drying agent temperature	180-200° C
9	Heat carrier circulation pattern	collector
10	Download type	Track-guided on rolls/using load-transfer device
11	Material of chamber wall	Zinc plated /
12	Control and Measuring Devices and Alarm signaling-siren	Yes
13	Power consumption	12 kW